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These striæ were most developed on the face P , and corresponded to the edges of planes of cleavage, which, as is well known, is eminent parallel to oP . One of these angles is almost identical with that given by Breithaupt. I place, however, no confidence on the accuracy of the measurement, on account of the imperfection referred to. It is, however, worthy of remark, that the angles of Rose, Breithaupt, and my own, give semiaxes divisible by fourteen, or so slightly differing from a multiple of fourteen, that the difference is fully covered by the possible errors of observation. We might conclude from this that the three observers had measured angles between different planes of the same series, were it not that the ratios between the parameters are so improbable as will appear from the following table : —

R on $R = 85^\circ 4'$	$a = 1.402$ nearly 14×100	Rose.
R on $R = 85^\circ 26'$	$ma = 1.388$ “ $14 \times 99 m = \frac{99}{100}$	Breithaupt.
R on $R = 85^\circ 41'$	$ma = 1.378$	Miller.
R on $R = 85^\circ 47'$	$ma = 1.374$ “ $14 \times 98 m = \frac{98}{100}$	Cooke.

Dr. Charles Pickering, at the request of Professor Agassiz, exhibited a map illustrating the distribution of quadrupeds over the earth; and Professor Agassiz exhibited, and compared with this, a map which he had just prepared, illustrating the distribution of animals generally.

On motion of Mr. Treadwell, it was

“ *Voted*, That the second monthly meeting of the present month be passed over, on account of the occurrence of the quarterly meeting in this month.

Three hundred and ninety-third meeting.

January 25, 1854. — QUARTERLY MEETING.

The PRESIDENT in the chair.

The Corresponding Secretary read a letter from the Academy of Natural Sciences, Philadelphia, acknowledging the reception of Vol. V. Part I. of the Memoirs of the Academy.

Messrs. Treadwell, Emerson, and Eliot were appointed a committee to arrange for a course of lectures before the Lowell Institute the next season. The course for 1853–4 was

given as follows, beginning on Tuesday evening, October 25th, at half past seven o'clock : —

By Professor Joseph Lovering, What is Matter?

By Professor Joseph Lovering, What are Bodies?

By Charles Jackson, Jr., Esq., History of the Useful Arts.

By Professor H. L. Eustis, The Britannia Bridge.

By Professor J. P. Cooke, Light.

By Professor A. Guyot, Psychological and Physical Characters of the Nations of Europe, compared with those of the American People.

By Professor A. Guyot, The same subject continued.

By Professor Asa Gray, The Relation of Plants to the Sun.

By Professor Asa Gray, The same subject continued.

By Dr. A. A. Gould, Aquatic Life.

By Professor Joel Parker, The Science of the Law.

By Professor H. D. Rogers, The Arctic Regions.

Mr. Folsom proposed a plan for printing the additions to the library, as they accrue, with a small form of type and a hand-press, and pointed out its advantages ; the subject was referred to a committee, consisting of the Librarian, Mr. Folsom, and Dr. Gray.

Professor Horsford made a communication upon a mode of rendering gutta percha elastic by the action of sulphur and oxide of lead, so as to render it useful as a substitute for india-rubber for car springs and other purposes where elasticity is required, — an important desideratum, on account of the increased price of india-rubber. He had succeeded in his endeavor, but the substance was not equal in value to vulcanized india-rubber. Specimens of gutta percha thus prepared, with various degrees of elasticity, were exhibited.

Three hundred and ninety-fourth meeting.

February 14, 1854. — SEMI-MONTHLY MEETING.

The PRESIDENT in the chair.

The Academy met at the house of Professor Treadwell, in Cambridge.